

PROMICROY, V.

We should spare no efforts for the solution of the main economic problem of the party and people. PTO 3 no.11:2-4 (MIM 14:10)

1. Sekretar' Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov. (Russia--Economic policy)

SUKHANOV, P., inzhener; PROKHOROV, V., inzhener.

Construction and calculation of stone walls of humid shops.

Mias. ind. SSSR 24 no.5:35-39 '53.

(Walls)

1. Rosmyasomolproyekt.

(Walls)

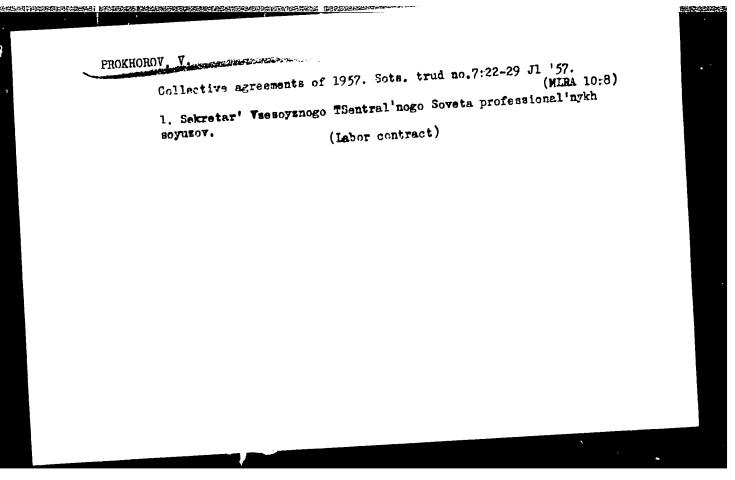
1-36-21-35-1 		- P
	PROKHOROV, V. 7 no.9:1-4 My 161.	
	PROKHOROV, V. Days of a great upsurge. Sov.profsoiuzy 7 no.9:1-4 My 161. (MIRA 14:4)	
	1. Sekretar! Vsesoyuznogo tsentral!nogo soveta profsoyuzov. (Socialist competition) (Trade unions)	
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PROK	For militant and mass organizations of scientific circles. HTO (MIRA 13:9) 2 no.9:5-7 S *60.	
	1. Sekretar' Vsesoyuznogo tsentral'nogo soveta profsoyuzov. (Technical societies)	

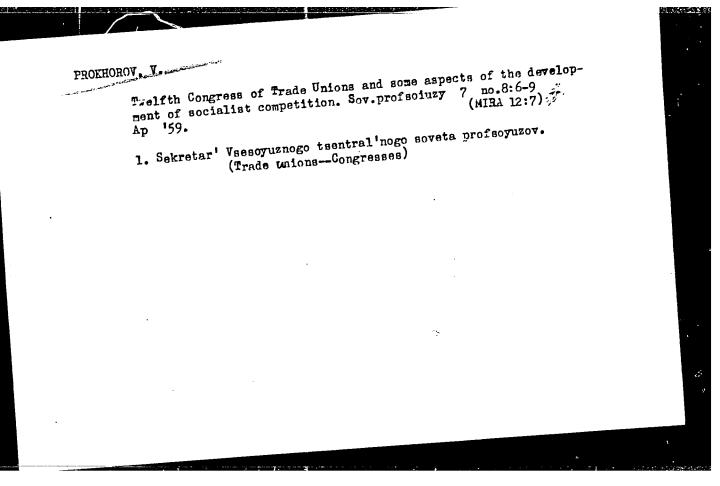
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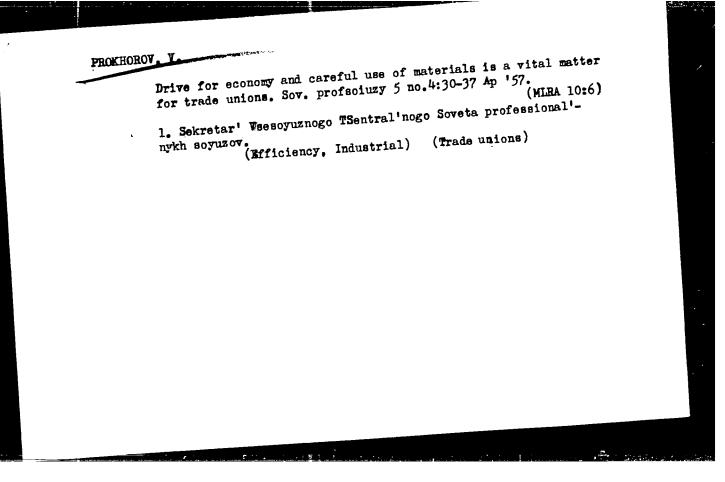
* 60 -	Great strength of socialist labor. Sots.trud 4 no.7:3-8 Jl (MIRA 13:8)		
1. Sekretar'	Bescyuznogo tsentral'nogo soveta profsoyuzov. (Labor and laboring classes)		

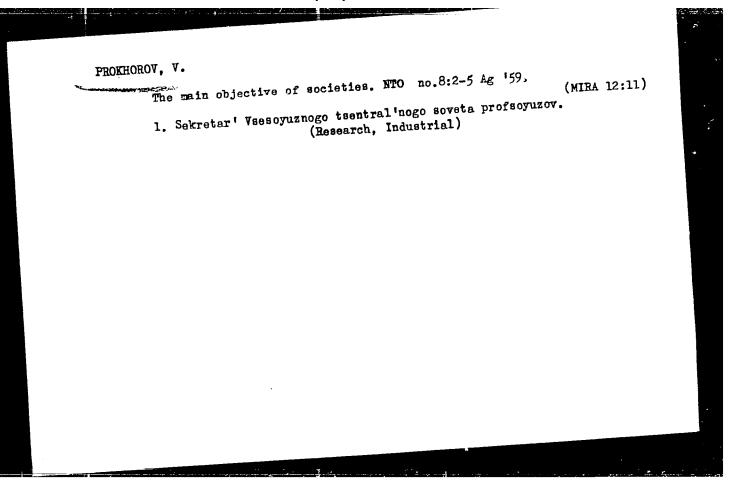
FROKHOROV, V. Trade unions and the widespread use of chemistry in the national economy. Sov. profsoluzy 20 no.3:2-4 F '64. (MIRA 17:3) 1. Sekretar' Vsesoyuznogo tsentral'nogo soveta professional'-nykh soyuzov.



P	Great energy for great objectives. NTO 6 no.1:2-4 Ja '64. (MIRA 17:2)	
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Creative initiative of the masses and trade unions. Sob. profesoiuzy (MIRA 13:10)
16 no.21:11-16 H '60.

1. Sekretar' Vsesoyuznogo tsentral'nogo soveta profesoyuzov.

(Socialist competition) (Trade unions)

Expand the varticipation of the masses in industrial ranagement.

Sov. prof: oiuzy 18 no.1:6-8 Ja 162. (MIRA 15:2)

1. Sekretari Vsesoyuznogo tsentralinogo soveta professionalinykh soyuzov.

(Works councils) (Trade unions)

PROKHOROV, V.A., polkovnik meditsinskoy sluzhby

Some defects in the selection of patients for health resort treatment.

Voen.-med. zhur. no.5:71 My '56.

(HEALTH RESORTS, WATERING PLACES, ETC.)

PROKHOROV, V. A.

USSR/Zooparasitology - Parasitic Protogoa.

G

: Ref Zhur Biol., No 1, 1959, 916 Abs Jour

: Prokhorov, V.A. i thor

: Arklangel Medical Institute Inst

Observation of the Character of the Exerction of Cysts of Title

Lamblia Intestinalis in Humans

: Sb. tr. Arkhang. med. in-t, 1957, vyp. 17, 233-237 Orig Pab

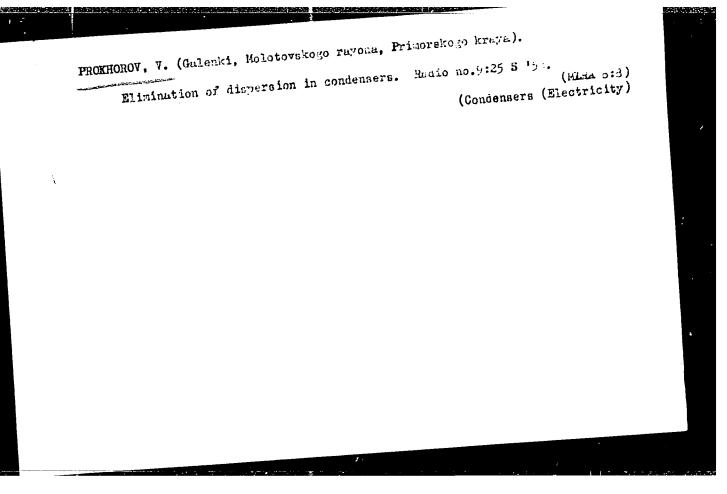
: Exerction of cysts of the Giardia lamblia in humans oc-Abstract

curred intermittently at an interval of 8 - 12 days, and for the diagnosis of lambliosis a triple examination. was necessary every 3 - 4 days. The use of meat food

contrib ted to a reduction in the number of excreted

cysts.

Card 1/1



CRIGAL, V.; PROKHOROV, V.

Reliability of radio equipment. Radio no.12:20-21 D '61.
(MIRA 14:12)

(Radio--Equipment and supplies)

AUTHOR: Prokhorov, V. (UAOJA) SOV/107-58-10-19/55

TIPLE: New Short-Wave Radio-Stations (Novyyo KV radiostantsii)

PERIODICAL: Radio, 1958, Nr 10, p 15 (USSR)

ABSTRACT: A reader tells of the opening of new amateur radio-stations

in the Amur Oblast .

Card 1/1

SOV-107-58-8-19/53

AUTHORS:

Prokhorov, Y. Chairman of the SW and VHF Sections; Cherepnenko, N., Chairman of the Radio Club Council,; Rudakov, A., Head of Amur Oblast Radio Club; Shkurov, Ye., Chairman of

the Amur Oblast Committee of DOSAAF.

TITLE:

Are the Radio Amateurs of the Zero Region at Fault? (Vinovaty li radiolyubiteli nulevogo rayona?)

PERIODICAL:

Radio, 1958, Kr 8, p 14 (USSR)

ABSTRACT:

The authors explain the points system used in amateur radio competitions and show how it is biased against radio operators in the zero region (Far East and Siberia) compared with operators in the European part of the USSR. To rectify this, a new points system is suggested in which the points awarded increase with the distance over which contact is made. The present point system takes into account the disappointing results achieved in competitions by zero region operators.

1. Radio operators--Performance

Card 1/1

ALENSEYEV, N.G.; PROKHCROW, V.A.

Differential photorelay for a thermostat [with English summary in insert]. Zhur.fiz.khim.30 no.5:1144-1145 My '56. (MLRA 9:9) (Photoelectric cells) (Thermostat)

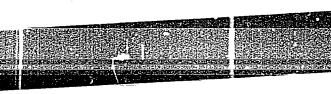
PROKHEROU, V. A.

"Application of a Scintillation Spectrometer in Physicochemical Investigations," by N. G. Alekseyev, V. P. Grigal, A. V. Kozlova, and V. A. Prokhorov, Zhurnal Fizicheskoy Khimii, Vol 31, No 4, Apr 57, pp. 915-919

It is pointed out that investigation of physicochemical processes with the application of tracer atom methods is considerably simplified in many cases if radioactive isotopes of several elements are used simultaneously. When the decay of these isotopes is accompanied by gammatemission, the quantitative determination of every isotope in the mixture

can be accomplished with the aid of a scintillation gamma-spectrometer. The isotopes are identified on the basis of the energies of the gamma-lines of the spectrum while the activity of every isotope is determined on the basis of the number of recorded gamma-quanta. The paper describes a spectrometer setup with a single NaI(TI) crystal and presents a method for calibration and measurement permitting determination of the composition of mixtures with an accuracy of 5-10%. The effectiveness of the crystal in determinations of gamma-radiation emitted by Cs¹³⁴, Cs¹³⁷, Zr⁹⁵, Zn⁶⁵, The samma-spectrum of gamma-radiation of the composition of the composition of the composition of mixtures with an accuracy of 5-10%. The effectiveness of the crystal in determinations of gamma-radiation emitted by Cs¹³⁴, Cs¹³⁷, Zr⁹⁵, Zn⁶⁵, and Zn⁶⁵ was determined. (U)

Sum /2 1881



AUTHORS:

Voskoboynikov, H. I., Kubantsev, A. P.,

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76-32-2-33/38

Prokhorov, V. A.

TITLE:

A Calorimetric Apparatus for the Measurement of Heat Processes

(Kalorimetricheskaya ustanovka dlya izmereniya dlitel'nykh of Duration

teplovykh protsessov)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Mr 2, pp. 460-464

(USSR).

ABSTRACT:

A calorimetric apparatus is described. It serves for the measures ment of the heat effects of chemical and physical-chemical long. duration processes. It consists of a thermostat TC-24 in a differ rential calorimeter and the electronic circuit connected with it. The thermostat in which the calorimeter is placed makes it possible to select the temperature for the experiment within the limits of from 25° to 150°C and to maintain this temperature with a constant accuracy of ±0,1°C. The calorimetric sensitivity of the apparatus $\delta q = 2,8 \cdot 10^{-4}$ cal/hour. In order to check the measurement accuracy an electric calibration of the apparatus was carried out. The de= APPROVED FOR REPEASE: 06715/2000 CIA-RDP86-00513B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B001313B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131B00131

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A Calcrimetric Apparatus for the Measurement of Heat Processes of Duration 76-32-2-33/38

was $0.05^{\circ}/\circ$. In order to illustrate the operation of the apparratus a measurement of the heat emission of the radioactive isotopes P³² and Sb¹²² was carried out. The difference in heat emission between the calculated values and those obtained by the authors was 1.7 cal/hour curie. This value corresponds to the γ radiation energy not retained in the calorimeter. There are 3 figures, 2 tables, and μ references, 2 of which are

SUBMITTED:

October 18, 1957.

Soviet.

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- 1. Calorimeters—Design 2. Calorimeters—Performance
- 3. Calorimeters -- Test results

Card 2/2

ROSOLOVSKIY, V. Ya.; ZINOV'YEV, A.A.; PROKHOROV, V.A.

Density in the system chloric anhydride - water. Zhur. neorg. khim. 5 no.3:692-694 Mr 160. (MIRA 14:6)

1. Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova AN SSSR. (Chlorine oxide)

5.2400 alm 2209

8h212 S/078/60/005/010/002/021 B004/B067

AUTHORS:

Rosolovskiy, V. Ya., Zinov'yev, A. A., Prokhorov, V. A.

TITLE:

Production of Perchloric Anhydride \mathcal{V}

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,

pp. 2148-2152

TEXT: The authors discuss the hitherto known methods of producing Cl_2O_7 by reacting $HClO_4$ with P_2O_5 . Since Cl_2O_7 was distilled off at $40-80^{\circ}C$, it always contained Cl_2O_6 and ClO_2 impurities. The methods published earlier by the authors are briefly mentioned: reaction of liquid $HClO_4$ with solid P_2O_5 and distilling off Cl_2O_7 at $-30^{\circ}C$ and 2 torr (Ref. 7), and reaction of vaporous $HClO_4$ with solid P_2O_5 (Ref. 8). The present paper reports on a new method in which SO_3 is used for dehydration. When adding oleum to $HClO_4$ and cooling with dry ice, the liquid is separated into two layers at a certain concentration ratio

Card 1/3

Production of Perchloric Anhydride

84212 s/078/60/005/010/002/021 B004/B067

(Tables 1,2). The upper one contains almost pure Cl207 from which the low SO3 amount (0.5%) is removed by distillation at 2 torr over P2O5 in a collecting vessel cooled with dry ice (Fig.). The lower liquid layer contains H₂SO₄, SO₃, HClO₄, Cl₂O₇, and crystals of either pyrosulfuric

acid or of the compound (ClO3)(HS207), which was discovered by A. A. Spryskov (Ref. 9). No pure Cl207 could be distilled off from this mixture. To avoid explosions one must work cautiously. The upper layer must be poured off since the friction of the tap of a separating funnel may already cause explosion. The following summational reaction equation is given: $2HC10_4 \cdot 2H_2^{0} + 5S0_3 = Cl_2^{0} + 5H_2^{S0} + (4)$. There are 1 figure.

2 tables, and 9 references: 3 Soviet, 3 US, 1 British, and 2 German.

ASSOCIATION: Institut obshchey i neorganicheskcy khimii im. N. S. Kurnakova Akademii nauk SSSR, Laboratoriya neorganicheskogo sinteza (Institute of General and Inorganic Chemistry imeni

N. S. Kurnakov of the Academy of Sciences USSR,

Laboratory of Inorganic Synthesis)

Card 2/3

SUBMITTED: June 27, 1959

card 3/3

85482

s/108/60/015/011/005/012 BO19/BO63

9,2583

Al'tshuller, G. B., Prokhorov, V. A., Members of the Society

AUTHORS:

Compensation of the Temperature-dependent Frequency TITLE:

Variations of Quartz Generators by Means of the p-n Junction

Capacity of Semiconductor Devices

Radiotekhnika, 1960, Vol. 15, No. 11. pp. 39-44

TEXT: The capacity of a p-n junction in blocked state is a particularly stable parameter of semiconductor devices. If this capacity is controlled by a temperature-dependent voltage, it may be used to compensate temperature-dependent frequency variations. The authors estimate the maximum possible compensation and select the necessary circuit elements. The problem is studied on a quartz generator in which the resonator is interconnected between grid and anode (Fig. 2). It proved to be most efficient to connect the compensating capacity and the quartz in series; the minimum compensating capacity turned out to be most favorable, A relation is derived for the relative value of the change of the control voltage required for the change in capacity. It is finally noted that Card 1/2

85482

Compensation of the Temperature-dependent Frequency Variations of Quartz Generators by Means of the p-n Junction Capacity of Semiconductor Devices S/108/60/015/011/005/012 B019/B063

the frequency stability can be improved only by means of a stabilized power source. The compensation method described by the authors may be also used for other radiotechnical purposes. There are 4 figures and 4 references: 3 Soviet and 1 British.

SUBMITTED:

March 12, 1960

Card 2/2

ALEKSEYEV, N.G.; PROKHOROV, V.A.; CHMUTOV, K.V.; FINKEL', E.E., red.; KOGAN, V.V., tekhn. red.

[Use of electronic equipment and circuits in physical chemistry] Primenenie elektronnykh priborov i skhem v fiziko-khimicheskom issledomenenie elektronnykn priborov i sknem v 1121ko-knimitomoshom 2001-552 p. vanii. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1961. 552 p. (MIRA 14:12)

(Electronic apparatus and appliances) (Chemistry, Physical and theoretical)

2220B

s/106/61/000/001/004/008 A055/A033

9.2543 (1040,1147)

Al'tshuller, G. B. and Prokhorov, V. A.

AUTHORS: TITLE:

Selecting the component parts of circuits of thermal compensation

of frequency variation of quartz oscillators

Elektrosvyaz', no. 1, 1961, 24 - 32 PERIODICAL:

Applied to crystal oscillators, the usual method of thermal compensation of frequency variations is ineffective. Even reactances with a high temperature coefficient do not ensure such frequency variation as is necessary for compensation, the variation of reactances being insufficient for that purpose. One of the methods allowing to obtain a sufficient variation of reactanges with temperature is the utilization of XR-circuits controlled by thermosensitive resistances (thermistors): for instance, an XR-circuit, composed of an inductance (or a capacitance) in parallel with a thermistor, can be connected in series with the crystal resonator, or an XR-circuit, composed of an inductance (or a capacitance) in series with a thermistor, can be connected in parallel with the crystal. This method of thermal compensation of crystal oscillators has already been described (Ref. 1:

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CIA-RDP86-00513R001343120019-7" APPROVED FOR RELEASE: 06/15/2000

22208

s/106/61/000/001/004/008 A055/A033

Selecting the component parts

Spears, "Thermally compensated crystal oscillators", The Journal of the British Institution of Radio Engineers, vol. 18, No. 10, 1958), but the article in question contains no precise data on the choice of the component parts of the compensating XR-circuit, and gives no information whatever on the losses caused by such a circuit. Therefore, examining the case of the most usual connections of crystal oscillating systems (with crystal resonator connected either between anode and grid or between grid and cathode), and using equivalent circuits of the Hartley oscillator, the author of the article develops general formulae giving the losses (loss resistances) in the case of either series or parallel connected compensating circuits. He then investigates the problem of controlling the frequency of the crystal oscillator by XR-circuits, and produces formulae and diagrams showing the admissible relationships between the various parameters of the whole circuit. These theoretical results are confirmed experimentally. Other curves show quite clearly the advantage of using thermally compensated crystals, as compared to non-compensated advantage of using thermally compensated crystals, as compared to non-componsated ones. Speaking finally of "BT-cut" and "AT-cut" crystals, the author gives a brief account of a theoretical and experimental investigation showing the peculiarities of the thermal compensation of these crystals. He states that frequency regulation of a "BT-cut" crystal is more difficult than that of an "AT-cut"

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Selecting the component parts ...

crystal. The majority of "At-cut" crystals have a positive temperature coefficient of frequency. For their thermal compensation, it is necessary to connect them either in series with a parallel CR-circuit or in parallel with a series LR-circuit. [Abstracter's note: by analogy with G-cut, X-cut and Y-cut crystals, the Russian "AT" and "5T" should most probably be translated by AT-cut and HT-cut] There are 10 figures and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to an English language publication reads as follows: Spears, "Thermally compensated crystal oscillators", The Journal of the British Institution of Radio Engineers, vol. 18, No. 10, 1958.

SUBMITTED: February 16, 1960.

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Card 3/3

30980 S/107/61/000/012/004/006 D201/D302

13.2900 (1159)

AUTHORS:

Grigal, V., and Prokhorov, V.

TITLE:

Reliability of electronic equipment

PERIODICAL:

Radio, no. 12, 1961, 20-21

TEXT: The authors consider the reliability of modern complicated electronic equipment together with the fundamentals of the equipment reliability theory. The theory of reliability is said to consider cases when the equipment is working in normal operating conditions, so that failure of the equipment has a random character. Quantitatively, reliability is defined as the average operator. Quantitatively, reliability is defined as the average operators time (T_0) without a failure in the instrument operation. For

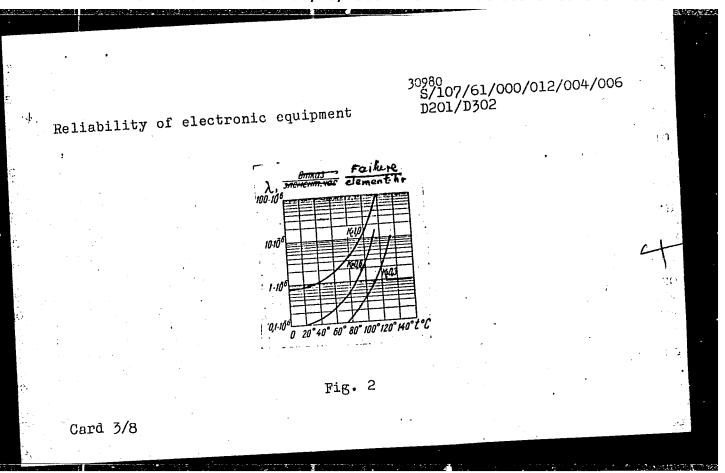
most electronic instruments, the factor λ depending on the duration of operation and determining the occurrence of failure, may be represented by a graph against time, rising initially during a cerpresented T_1 , then falling to, and remaining constant during

Card 1/8

39807/61/000/012/004/006 D201/D302 Reliability of electronic equipment

time \mathbf{T}_2 and rising again during the rest of the instrument life \mathbf{T}_3 . By preliminary artificial ageing and proper choice of components it is possible to obtain an operation of equipment which, from the start, will have the occurrence of failure minimized down to 'start, which is the longest and corresponding to the normal 'significant T_2 which is the longest and corresponding to the normal 'significant's T_2 ploitation period of the equipment life. The average operating time without failure T is evaluated statistically. The reliability of a component depends on given conditions of its operation.

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30980 S/107/61/000/012/004/006 D201/D302

Reliability of electronic equipment shows the graph of λ against temperature for mica capacitors, with as parameter and

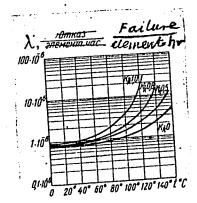


Fig. 3

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Unom

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electronic equipment

the graph of λ against temperature for resistors, with $K_R = \frac{W_{op}}{W_{normalise}}$

as parameter, U_{op} , W_{op} and U_{nom} , W_{nom} - being the operating and nominal voltage and wattage respectively. To increase the accuracy of calculations it is said in some cases to be advisable to take into account differences in the reliability of various types of components. For instance capacitors type kBM(KBM) have a rate of failures of 3.5 x 10⁻⁶ elements. hr. while this rate for capacitors type kBN(KBG) is only 1.6 x 10⁻⁶ elements hr. The danger of failure type kBN(KBG) is only 1.6 x 10⁻⁶ elements hr. The danger of failure and of an instrument, its average time of operation without failure and the reliability of its operation for a given time may be calculated the reliability of its operation for a given time may be calculated. The simplest case is when all the circuit components are connected in series. If the components are independent of each other, the circuit reliability P at any instant t is given by formula

 $-(\lambda_1+\lambda_2+\lambda_3+...\lambda_n)^t=e^{-\lambda t}$ (1)

Card 5/8

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Reliability of electronic equipment

where

 $\lambda = \lambda_1 + \lambda_2 + \lambda_3 + \dots + \lambda_n - 1$

is the probability of failure of an instrument containing series connected. (in terms of reliability) components. The above method connected to evaluate the reliability of the third class has been applied to evaluate the reliability of the third class superhet.receiver "Rekord" and of the transistorized receiver "Minsk" (Radio, no. 3, 1960). The list of components of each receiver is given in a table. Describe failures of those elements are taken into given in a table. given in a table. Possible failures of those elements are taken into account by the introduction of a coefficient (1.1 -1.4) in formula (1) which thus becomes $p_{=e^{-(1,1-1,4)}t}$ (2).

The value of this coefficient has been assumed from experience which shows that 10-30% of total failures are due to the failure of switching and assembly elements. The reliability of the receiver "Rekord" was thus found to be P=e-700.10-4

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30980 s/107/61/000/018/51-008 D201/D302

Reliability of electronic equipment

and the average life time $T_0 = \frac{1}{700 \times 10^{-6}}$ 1430 hrs. For the reserve: "Minsk" P is given by

P=e-450-10-6+

and $T_0 = \frac{1}{460 \text{ kl}0} \cdot 6^{-2220}$ hrs, the graphs of reliability against time show that the reliability and life time of transistorized receivers are better than that of vacuum tube receivers. It is stated in conclusion that obtaining a required reliability of operation of complex electronic equipment, containing tens of thousands of elements is difficult and sometimes impossible without certain special Precautionary methods, such as the method of reserve components, the simplest of which is duplication. Two duplicate circuits with reliability P=0.9 connected in parallel increase their overall reliability to 0.99. Thus, methods of a designing complex system with

reserve components have been developed which make it possible to

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30980 S/107/61/606/012/604/606 D201/D302

Reliability of electronic equipment

design complex systems with a given reliability. There are $^{\rm 4}$ figures and 2 tables.

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4

GRICAL, V.P.; PROKHOROV, V.A.

Regulated rectifier for the power supply of measurement circuits. Zhur.fiz.khim. 35 no.8:1865-1866 Ag '61.

(MIRA 14:8)

(Electric current rectifiers)

ACC NR: AP6034596

(N)

SOURCE CODE: UR/0115/66/000/010/0035/0037

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AUTHOR: Prokhorov, V. A.

ORG: none

TITLE: Optimizing design parameters of a tuning fork release regulator

SOURCE: Izmeritel'naya tekhnika, no. 10, 1966, 35-37

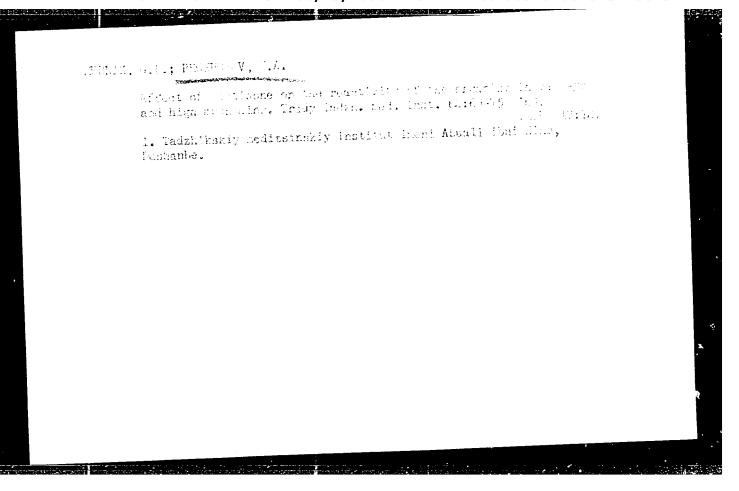
TOPIC TAGS: electronic computer, computer component, circuit design, optimization

ABSTRACT: After describing the rising importance of electronic digital computers, problems are discussed in "optimizing parameters" in their design and construction, including the establishment of quality indicators; also the search for greater accuracy, reliability, and technological improvement; programming and "debugging". The efficiency of the "Slava" tuning fork release regulator is designated the quality criterion in a computer, since it reduces the amount of current consumed. A drawing of this release is explained, referring to its transistor emitter. Formulas are given for its overall functioning, average power consumption in its impulse winding, also for winding resistance and for vibration coefficients. The requirement is set that its vibration amplitude must be within a range of 38 to 44 μ . A study for optimizing a triple-address electronic computer found that the lowest power consumption was in machines with 1900 or 8080 loops. Orig. art. has: 12 formulas and 1 figure.

SUB CODE: 09,12/ SUBM DATE: 02Jun66/ ORIG REF: 008

Card 1/

UDC: 529.78.001.24



PROKHOROV, Vladimir Borisovich; MIKHAYLOVSKIY, Yu.V., kand. tekhn. nauk, retsenzent; SOLOV'YEV, N.S., otv. red.

ede facilità de la company de la company

[Operation of machines in the lumbering industry] Ekspluatatsiia mashin v legozagotovitel noi promyshlennosti.
Moskva, Goslesbumizdat, 1963. 382 p. (MIRA 17:6)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343120019-7"

KUZIN, Aleksandr Stepanovich; KRASHENINNIKOV, Ye.M., retsenzent;

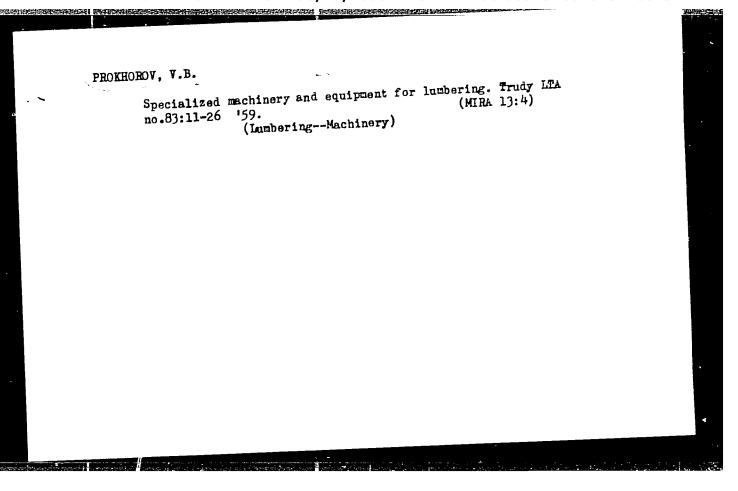
PROKHOROV, V.B., dots., kand. tekhn. nauk, otv. red.;

BEZGODOVA, L.V., red.; URITSKAYA, A.D., tekhn. red.

[Operation of machines; maintenance of engines. A laboratory manual] Ekspluatatsiia mashin; tekhnicheskoe obsluzhivanie dvigatelei. Posobie k laboratornym zaniatiiam dlia studentov lesomekhanicheskogo i lesoinzhenernogo fakulitatori tov lesomekhanicheskogo i lesoinzhenernogo fakulitatori ningrad, Vses. zaochnyi lesotekhnicheskii in-t, 1902. 50 p. (MIRA 16:5)

1. Zaveduyushchiy kafedroy tyagovykh mashin Petrozavodskogo universiteta (for Krasheninnikov).

(Engines---Maintenance and repair)

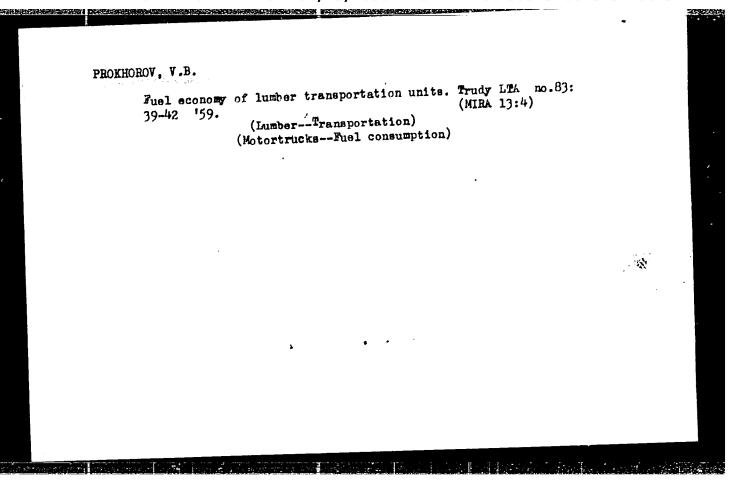


PROKHOROV, V.B.

Basic indicators of the effectiveness of machinery and equipment in lumbering. Trudy LTA no.83:27-37 '59.

(MIRA 13:4)

(Laumbering--Machinery)



PROKHOROV, V. B.

USSR (600)

Gas Burners

Gas burner in Uralzis-LTA. Les. prom., 12, No. 1, 1952.

Monthly List of Hussian Accessions, Library of Congress, March 1952. UNCLASSIFIED.

PROKHOROY, V.D., gornyy inzhener.

One should not avoid the sidewise method of coal cutting. Mekh.trud. (MLRA 7:6)

rab. 8 no.3:39 Ap-My '54*, (Coal mines and mining)

PROKHOROV, V. D.

USSR/Mining - Methods

Card 1/1

Authors

: Prokhorov, V. D.

Title

: It is Impossible to Discard the Side Cutting of Coal

Periodical

: Mekh. Trud. Rab. Ed. 3, 39, Apr - May 1954

Abstract

: A critical review of G. A. Lomov article pertaining to the mechanized excavation of coal. The author states that G. A. Lomov failed to list specific instructions for the operation of his coal excavating machine, type ZAL-1, and that he did not take into account the side cutting and removal of coal, which at present is not yet fully

mechanized and results in loss of time.

Institution

Submitted

CIA-RDP86-00513R001343120019-7" APPROVED FOR RELEASE: 06/15/2000

SULIMA-SAMUYILO, A.P., prepodevatel; KROT-KRIVAL, I.S., prepodevatel; KOVROVISEVA, Ye.G., prepodevatel; KOVALEVA, I.N., prepodevatel; BUGROVA, O.G., prepodevatel; LEVENTO, T.Ya., prepodevatel; PROZHOROV, V.F., red.; ZHAVORONKOV, I.I., red.; KHITROV, P.A., tekhn.red.

[German-Russian railroad dictionary] Nemetako-russkii zheleznodorozhnyi slovar'. Sost.A.P.Sulima-Samuillo i dr. Pod red. V.F.Prokhorova. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 536 p. (MIRA 14:4)

1. Kafedra inostrannykh yazykov Moskovskogo instituta inzhenerov zheleznodorozhnogo transporta (for Sulima-Samuyllo, Krot-Krival', Kovrovtseva, Kovaleva, Bugrova, Levento)
(Railroads--Dictionaries)

(German language--Dictionaries--Russian)

ARTEMOV, A.P.; AVDEY, V.E.-Ya.; ROKHCHINA, L.G.; DUBNER, M.I., kand.
tekhn.nauk, red.; MEDER, V.L., kand.tekhn.nauk, red.; PROKHOROV,
V.F., inzh.-mayor, red.; GRECHENKO, Ye.H., red.-leksikograf;
YAKIMOVICH, Yu.K., red.-leksikograf; ANIKINA, R.F., tekhn.red.

[German-Russian artillery dictionary] Nemetsko-russkii artilleriiskii slovar. Pod red. M.I.Dubnera i V.L.Medera. Moskva. Voen.izd-vo M-va obor.SSSR, 1960. 436 p. (MIRA 13:4) (Artillery-Dictionaries) (German language-Dictionaries-Russian)

ROZENBERG, Ivan Aleksandrovich; GOLUBEVA, K.A., inzh., retsenzent; MA-SLIY, K.Ya., zuborez, retsenzent; ZHUKOV, P.A., kand.ekon.nauk, red.; PROKHOROV, V.F., red. vypuska; BELYAKOV, M.N., red.; ROZEN-BERG, I.A., kand.ekon.nauk, red.; SMIRNITSKIY, Ye.K., kand.ekon. nauk, red.; SUSTAVOV, M.I., inzh., red.; DUGINA, N.A., tekhn.red.

[From the shift plan to the national economic plan] of amennogo do narodnogo khoziaistvennogo plana. Moskva, Mashgiz,
1960. 45 p. (Biblioteka rabochego mashinostroitelia: Seriia
"Osnovy konkretnoi ekonomiki," no.3) (MIRA 14:5)
(Russia--Economic policy) (Industrial management)

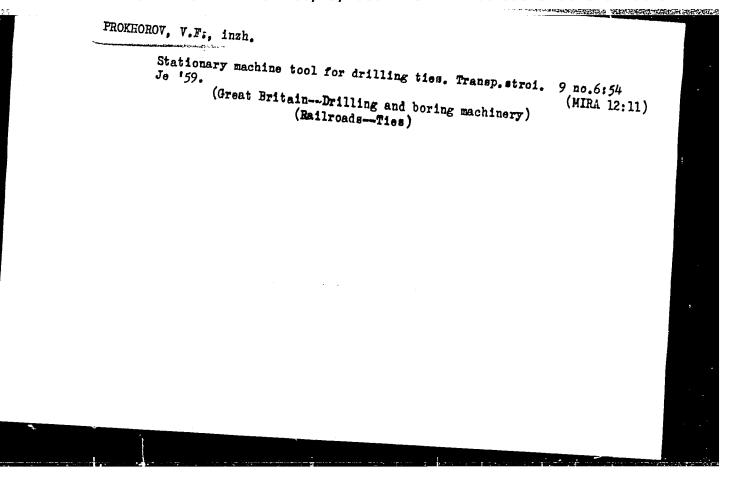
GRISHIN, I.I., inzh.; PROKHOROV, V.F., inzh.

Safety measures in servicing the power supply stations of automatic block systems. Avtom., telem. i sviaz' 6 no.10:21-22 0 '62.

(MIRA 16:5)

(Railroads—Signaling—Block system)

(Railroads-Safety regulations)

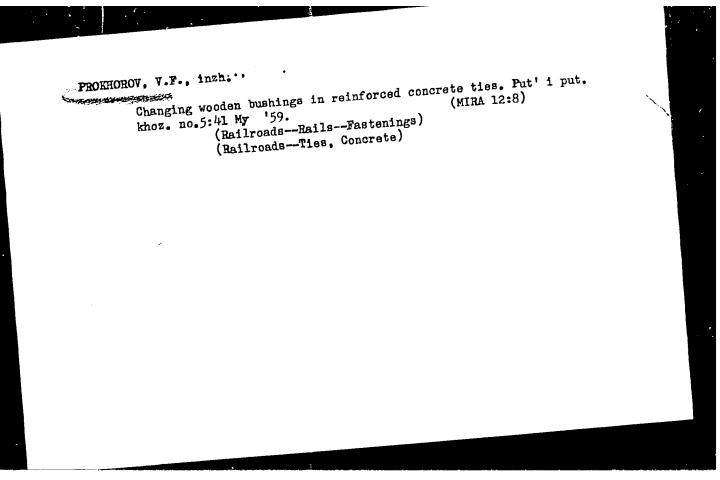


CHOCHIA, A.P.; SHCHEGIOV, A.S.; PROKHOROV, V.F., red.; KUZ'MIN, I.F.,

tekhn. red.

[English-Russian armored dictionary] Anglo-russkii gytobronetankovyi
slovar'; svyshe 30 000 slov i sochetanii. Moskva, Voen. izd-vo M-va
(MIRA 14:10)
oborony SSSR, 1961. 783 P.
(English language—Dictionaries—Russian)
(Tanks (Military science))—Dictionaries)

DOZOROV, Nikolay Ivanovich, kand.tekhn.nauk, inzh.; PROKHOROV, V.F., inzh.-mayor, red.; SAVIN, B.V., red.-leksikograf; ANIKINA, R.F., [English-Russian radio-electronics dictionary] Anglo-russkii slovar po radioelektronike. Moskva, Voen.izd-vo M-va obor. tekhn.red. (MIRA 12:10) (Electronics--Dictionaries) SSSr. 1959. 535 p. (English language -- Dictionaries -- Russian)



PROKHOROV, V. G.

PROKHOROV, V.G

46-3-7/15

TITIE: On the Conversion of an Ultrasonic Image into a Visual Image. (K voprosu preobrazovaniya ul'trazvukovogo izobrazheniya v

PERIODICAL: Akusticheskiy Zhurnal, 1957, Vol.III, Nr 3, pp.254-261

ABSTRACT: The paper describes an apparatus for the conversion of an ultrasonic image into a visual image, using an electronacoustic tube. The work of a piezoquartz plate working as a receiver is investigated and the censitivity threshold of the tube is determined. Some practical applications in the range 4-10 Mc/sec are described. A block diagram of the electron-acoustic converter is given in Fig.1. A beam of plane ultrasonic waves from the emitter (1) falls on the object under consideration (2), placed, for example, in a liquid medium. An acoustic shadow is formed behind the object, as shown in the figure. If the wavelength of the ultrasonic wave is less than the linear dimensions of the object, then the form and the dimensions of the acoustic shadow will, up to a point, reflect the form and dimensions of the object. The ultrasonic lens (3) projects this Card 1/4

46-3-7/15

On the Conversion of an Ultrasonic Image into a Visual Image.

element of the converter is the electron-acoustic tube (4) which converts an ultrasonic image into a series of electric signals. The tube has a piezoelectric target (quartz plate) instead of the usual CRO screen. On the outer side turned towards the ultrasonic waves the plate is covered with a silver coating and is earthed. Near the internal surface of the plate there is an additional electrode which captures secondary electrons which are ejected from the target by the electron beam. An ultrasonic beam transmitted through the medium containing the object and the lens has a certain distribution of intensity across its cross-section which corresponds to the form and structure of the irradiated object. When such an ultrasonic field acts on the piezoreceiver, different parts of the latter will be subjected to different ultrasonic pressures (different amplitudes). To obtain a maximum sensitivity the work is carried out at a resonance frequency common to the emitter and the piezo target. As a result of the piezo effect on the surface of the target piezoelectric charges are formed, corresponding to the distribution of pressure across the cross-

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46-3-7/15

On the Conversion of an Ultrasonic Image into a Visual Image.

section of the ultrasonic beam, i.e., a conversion of the ultrasonic image into a piezoelectric image occurs. This piezoelectric image is converted into a series of electrical signals and subsequently into a visual image. This is carried out by means of the electron sweep (5). The electron beam scans the surface of the piezoelectric target, forming a television grid. Since the piezoelectric target is a good dielectric, the only source of current is the primary electron beam and the current loss is by secondary emission of electrons into the collector. On equilibrium when the potential of the surface reaches an equilibrium value, the current into the target should be equal to the current from it. In that case deposition or extraction of charge from the surface of the target will appear as a modulation of the secondary current collected on the collector electrode. In this case the change in the charge on the surface of the target is due to a piezoelectric effect occurring under the action of the ultrasonic image produced in the way described above. In this way a high frequency signal appears across the load in the collector circuit due to the change in the number of secondary Card 3/4 electrons leaving the surface of the piezo-target. After

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4**6-3-**7/15

On the Conversion of an Ultrasonic Image into a Visual Image.

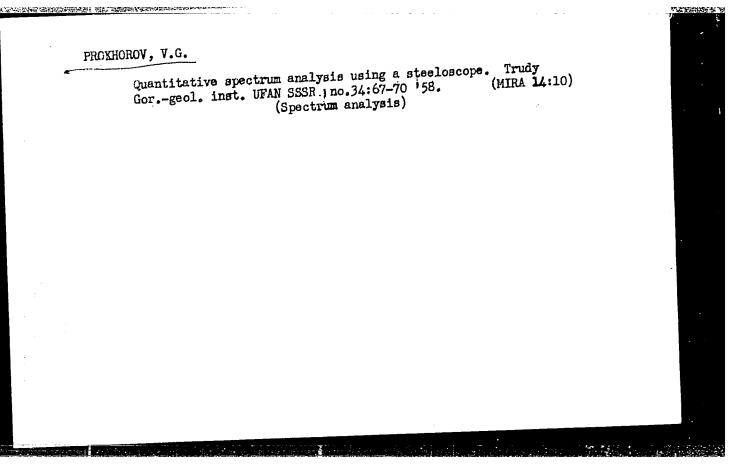
the amplifier (6) and a detector, this signal is applied to a kinescope (7). If the two tubes are suitably synchronised then the kinescope gives an image corresponding directly to the original ultrasonic image. The work of this system is considered and the quality of the conversion is illustrated in Figs.11-14. The work was carried out in 1950-1953. S.Ya.Sokolov is thanked for advice. There are 14 figures and 12 references, of which 5 are Russian, 3 are German and the rest are English.

ASSOCIATION: Pushkin, Leningrad Oblast (g.Pushkin, Leningr.obl.)

SUBMITTED: December 10, 1956.

AVAILABLE: Library of Congress.

Card 4/4



"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343120019-7

132-58-6-9/13

AUTHOR:

TITLE:

The Application of the Blowing-in and Injection Methods to Metallometric Mass-Analyses (Primeneniye metoda vduvaniya-Prokhorov, V.G. prosypki pri vypolnenii massovykh metallometricheskikh ana-

PERIODICAL:

ABSTRACT:

Razvedka i Okhrana Nedr, 1958, Nr 6, pp 54-56 (USSR) This is a description of the unit for accelerated spectral analysis of metallometric samples, constructed by the Urals Geological Administration. It was built according to plans elaborated by A.K. Rusanov Ref. 1, 27. Its aim is to sharply increase the number of spectral analyses. Its principle consists in the blowing- in of the powder of the analyzed mineral to the arc discharge. The description of the apparatus is given: the analysis of each sample takes only 22-25 seconds. The man in charge of the operation can make as many as 600 analyses in one shift. There are 3 drawings, 1 table and

ASSOCIATION: Ural'skoye Geolupravleniye (The Urals Geological Administration)

Library of Congress

AVAILABLE: Card 1/1

1. Instruments-Metals-Sampling-Application

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CIA-RDP86-00513R001343120019-7"

28(1),24(7) AUTHOR:

Prokhorov, V. G.

507/32-25-2-61/28

TITLE:

Some Methods for Mechanization of the Spectrum Analysis (Nekotoryye priyemy mekhanizatsii spektralinogo analiza)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 2, pp 238-240 (USNR)

ABSTRACT:

The method of reducing the intensity of the spectral line (Ref 1) is used for approximately determining raw materials, rocks, minerals, and soil samples. The spectral line, which is photographed with the help of a clearing agent, is wedge-shaped, and its length depends on the amount of the element under investigation contained in the material. A mechanization of this analysis process is described. The element content to be determined is calculated by means of a calculation table which is also used in metallometric analyses (Fig 1). The length of the spectral line, the reading of which is taken by means of a microscope, is transferred, by means of a micrometer caliper with a special mechanism, to the calculation table where the amount of the element is shown in a gradation curve.

Card 1/2

Some Methods for Mechanization of the Spectrum Analysis

SOV/32-25-2-61/78

The automatic calculation table described can also be used in connection with stylometers. Moreover, an automatic device (Fig 2) for producing geochemical sections during the analysis process is described. The working principle of the apparatus is analogous to the one described above, but a cylinder is used instead of a table, which turns and records the data obtained on a paper tape. There are 2 figures and 1 Soviet reference.

ASSOCIATION:

Ural'skoye geologioheskoye upravleniye (Ural Geological Administration)

Card 2/2

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343120019-7

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.

Materialy (Materia's of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopiij and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. F. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

COVERAGE: The collections of the application for the application for the application for the sis in controlling in ferrous and non try, and medicine. Chentsova for help References follow to TABLE OF CONTENTS:	d Ural Conference (Continuous presents theorem attion of atomic and many the chemical compositions ferrous metallurgy, The authors express in preparing the mathe individual articles.	ical and pract	- et anala-:	
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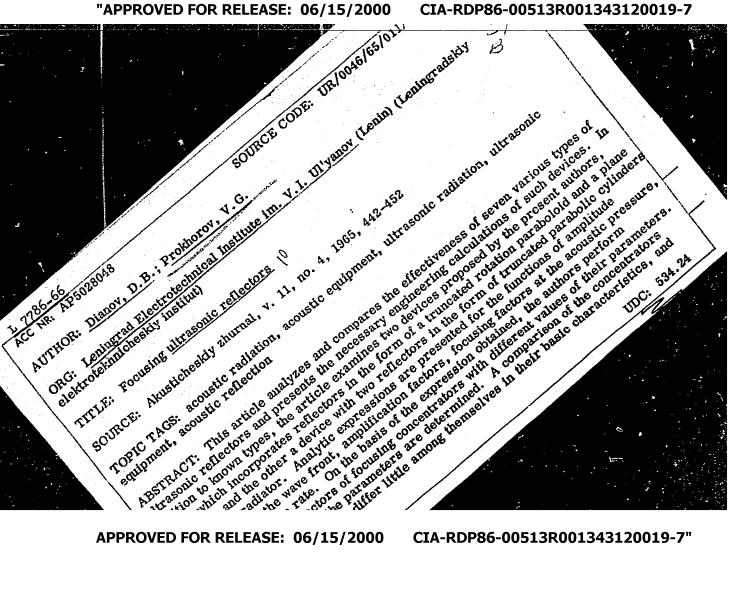
Materials of the Third Ural Conference (Cont.) Shchebleva, V. P. Spectral analysis of manganese ore, titanium oncentrate, and weld deposits Narbutovskikh, T. S., D. Ye. Katkova, and A. P. Zelenkina. Spectral determination of cadmium in the products of hydrometallurgical reprocessing of sublimates from copper smelters Prokhorov, V. G. Arbitrary standard method Kolenko, L. I., and P. V. Pokrovskiy. Determination of small amounts of beryllium in granitoids Trayanova, M. V. Quantitative spectrographic determination of lead in zircons and monazites Zotin, M. A., and A. M. Shavrin. Spectral-analytical determination of nickel in ores by the dilution method Card 1863 Card 1863	4				_	
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Kolenko, L. I., and P. V. Pokrovskiy. Determination of small amounts of beryllium in granitoids Trayanova, M. V. Quantitative spectrographic determination of lead in zircons and monazites Zotin, M. A., and A. M. Shavrin. Spectral-analytical determination of nickel in ores by the dilution method 133	:		Spectral determination of cadmium in the products of hydrometallurgical reprocessing of sublimates from	126		
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Zotin, M. A., and A. M. Shavrin. Spectral-analytical determination of nickel in ores by the dilution method 133		1	Followko I. I. and P. V. Pokrovskiy. Determination of	129		
mination of nickel in ores by the dilution method		,	of lead in zircons and monazites	-3-		
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WHAMSKIY, Ye.V.; LEVCHENKO, V.F.; PROXHONOV, V.G.; SMAJIN, N.I.

Ultrasonic method used for determining small amounts of water
in methanol. Zavelac. 28 no.3:312-313 '62. (MiRA 15:4)

1. Hauchno-leslodovatel'ski, i proyektnyy institut azotnov
promyshlennosti i produktov organictesko; o sinteza.
(Methanol) (Water) (Ultrasonic testing)

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CIA-RDP86-00513R001343120019-7

L 7786-66

ACC NR. AP5028048

SOURCE CODE: UR/0046/65/011/004/0442/0452

AUTHOR: Dianov, D.B.; Prokhorov, V.G.

ORG: Leningrad Electrotechnical Institute im. V.I. Ul'yanov (Lenin) (Leningradskiy elektrotekhnicheskiy institut)

TITLE: Focusing ultrasonic reflectors 10

SOURCE: Akusticheskiy zhurnal, v. 11, no. 4, 1965, 442-452

TOPIC TAGS: acoustic radiation, acoustic equipment, ultrasonic radiation, ultrasonic equipment, acoustic reflection

ABSTRACT: This article analyzes and compares the effectiveness of seven various types of ultrasonic reflectors and presents the necessary engineering calculations of such devices. In addition to known types, the article examines two devices proposed by the present authors, one of which incorporates reflectors in the form of a truncated rotation paraboloid and a plane radiator, and the other a device with two reflectors in the form of truncated parabolic cylinders and a plane radiator. Analytic expressions are presented for the functions of amplitude distribution at the wave front, amplification factors, focusing factors at the acoustic pressure, and the oscillation rate. On the basis of the expression obtained, the authors perform calculations of the factors of focusing concentrators with different values of their parameters. The optimal values of the parameters are determined. A comparison of the concentrators examined shows that they differ little among themselves in their basic characteristics, and

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	ACC NR: AF5028048 that their focusing factors can achieve high magnitudes. Orig. art. has: 14 figures and 50 formulas.	0	
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AP6035736 ACC NR:

UR/0413/66/000/019/0098/0098 SOURCE CODE:

INVENTOR: Prokhorov, V. G.

ORG: none

TITLE: Unit for converting ultrasonic vibrations into a visual image.

No. 186751

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 98

TOPIC TAGS: nondestructive quality control, ultrasonic quality image converter, visual ultrasmir image

ABSTRACT: This Author Certificate introduces a device for converting ultrasonic vibrations into a visual image. The unit (Fig. 1) consists of an emitter, an ultrasonic objective, an electrokinetic target fastened to the screen of a cathode-ray

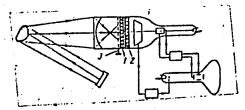


Fig. 1. Ultrasonic vibration image converter

1 - Target; 2 - screen; 3 - electrode.

534-8:771.351.7

tube connected to a kines the quality of the image diaphragm with cylindrical creen with built-in met grap of capilliaries, a sou transparent electrons	al coperiodes which	ovided with a metalliz 1 figure.	r. To improve orn of a d to a dielectric idual or to a sed, common	
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Card 2/2				,

KHAYRETDINOV, I.A.; DOKUKIN, G.P.; PROKHOROV, V.G.; SVERLOVA, V.N.

Use of gas testing for prospecting in the fault areas of the Western Sayan Mountains. Geol. i georiz. no.10:135-137 '65. (MIRA 18:12)

l. Krasnoyarskoye otdeleniye Sibirskogo nauchno-issledovatel'-skogo instituta geologii, geofiziki i mineral'nogo syr'ya. Submitted March 25, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343120019-7"

BERMAN, B.I.; PROKHOROV, V.G.; KHAYRETDINOV, I.A.

Temperatures of the formation of pyrite-complex metal mineralization in eastern Tuva. Geol.rud.mestorozh. 7 no.4:63-75 Jl-Ag '65.

(MIRA 18:8)

1. Moskovskiy geologorazvedochnyy institut im. Ordzhonikidze.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343120019-7

VOYTKEVICH, G.V.; PRCKHOROV, V.G.; KHAYRETDINOV, I.A.

Nature of thermoelectric effect in minerals. Dokl. AN SSSR 162
(MIRA 18:5)
no.1:169-172 My '65.

1. Krasnoyarskaya kompleksnaya laboratoriya Instituta geologii i
geofiziki Sibirskogo otdeleniya AN SSSR. Submitted January 13,
1965.

VORONENKOVA, L.D.; PROKHOROV, V.G.

History of the ichthyofauna of the lower Don River; based on materials of the Nizhne-Gnilovskoy ancient site of the 1st and 2nd centuries A.D. Zool. zhur. 42 no.1:143-146 163. (MIRA 16:5)

1. Belorussian Agricultural Academy, Gorki.
(Don Valley-Fishes, Fossil)

